## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220					
0000054922	ACTION as well		as, where applicable, item 5 below.					
International application No.	International filing date (day/mon	h/year)	(Earliest) Priority Date (day/month/year)					
PCT/EP2004/011294	08/10/2004	:	10/10/2003					
Applicant								
BASF PLANT SCIENCE GMBH								
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.								
This International Search Report consists	of a total ofs	eets.						
X It is also accompanied by	a copy of each prior art document	cited in this	report.					
	1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
The international this Authority (Au		s of a transl	ation of the international application furnished to					
b. X With regard to any nucleo	b. X With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.							
2. Certain claims were fou	nd unsearchable (See Box II).							
3. Unity of invention is lac	king (see Box III).							
4. With regard to the title,								
the text is approved as su	bmitted by the applicant.							
X the text has been establis	hed by this Authority to read as followed	ows:						
TRANS-2-ENOYL-COA REDU	CTASE GENE OF EUGLEN	A GRACI	LIS					
5. With regard to the abstract,								
X the text is approved as su	ibmitted by the applicant.							
the text has been establis may, within one month from	shed, according to Rule 38.2(b), by om the date of mailing of this intern	this Authori ational sear	ity as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.					
6. With regards to the drawings,								
a. the figure of the drawings to be published with the abstract is Figure No								
as suggested by	the applicant.							
<u>-</u>	is Authority, because the applicant							
	is Authority, because this figure be	iter characti	erizes the invention.					
b none of the figures is to b	e published with the abstract.							

International application No.

PCT/EP2004/011294

No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of t	the first sheet)
With regainvention	gard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of:	tion and necessary to the claimed
ą. typ	pe of material	
·X	a sequence listing	
	table(s) related to the sequence listing	
·	rmat of material	
X	<del> </del>	
х	in computer readable form	
c. tim	ne of filing/furnishing	
х	contained in the international application as filed	•
х	filed together with the international application in computer readable form	
F	furnished subsequently to this Authority for the purpose of search	
	In addition, in the case that more than one version or copy of a sequence listing and/or or furnished, the required statements that the information in the subsequent or additional application as filed or does not go beyond the application as filed, as appropriate, were	al copies is identical to that in the
Additiona	nal comments:	
		•
		•

PCT/EP2004/011294 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N9/02 C12N15/82 A01H5/00 C12P7/64 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N A01H C12P Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, Sequence Search, EMBASE, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° Χ INUI H ET AL: "PURIFICATION AND SOME 1,2,7-11 PROPERTIES OF SHORT CHAIN-LENGTH SPECIFIC TRANS-2 ENOYL COENZYME A REDUCTASE IN MITOCHONDRIA OF EUGLENA-GRACILIS" JOURNAL OF BIOCHEMISTRY (TOKYO), vol. 100, no. 4, 1986, pages 995-1000, XP002272816 ISSN: 0021-924X cited in the application the whole document

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  A' document defining the general state of the art which is not considered to be of particular relevance  E' earlier document but published on or after the international filing date  L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O' document referring to an oral disclosure, use, exhibition or other means  P' document published prior to the International filing date but later than the priority date claimed	<ul> <li>"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  15 December 2004	Date of mailing of the international search report  28/12/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Blanco Urgoiti, B

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Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with Indication, where appropriate, of the relevant passages		Relevant to claim No.
	Oralion of about herit, with indication, who is appropriate, or the relevant passages		nelevant to cidini No.
X	DATABASE UniProt 'Online! 1 June 2003 (2003-06-01), "Hypothetical protein VP1231." XP002310559		1,2,7
	retrieved from EBI accession no. UNIPROT:Q87QB9 Database accession no. Q87QB9 sequence data		
X	DATABASE EMBL 'Online!  1 September 2000 (2000-09-01), STOVER C.K. ET AL.: "Complete genome sequence of Pseudomonas aeruginosa PAO1, an opportunistic pathogen" XP002272819		7,9
	Database accession no. AE004721 *nts 5060 to 6239* *hypothetical protein Q9HZP8* page 3	,	
A	INUI H ET AL: "FATTY-ACID SYNTHESIS IN MITOCHONDRIA OF EUGLENA-GRACILIS" EUROPEAN JOURNAL OF BIOCHEMISTRY, vol. 142, no. 1, 1984, pages 121-126, XP008028490 ISSN: 0014-2956 cited in the application		
A	OHLROGGE JOHN ET AL: "Lipid biosynthesis" PLANT CELL, vol. 7, no. 7, 1995, pages 957-970, XP002272818 ISSN: 1040-4651 cited in the application		
Α	WO 03/054189 A (BIESGEN CHRISTIAN; SUNGENE GMBH & CO KGAA (DE)) 3 July 2003 (2003-07-03) sequences 11,35 the whole document		
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nformation on patent family members

Intentional Application No PCT/EP2004/011294

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03054189 A	03-07-2003	CA 247032 WO 0305418 EP 145887	39 A2 03-07-2003